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3	L3	L1 and L2	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:31	0

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4	L4	380/257.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:31	112
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6	L6	713/156.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:31	742

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7	L7	713/182.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:32	1063
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9	L9	709/224.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:32	5427

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10	L10	709/225.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:32	2505
11	L11	"switch identity" adj "certificate" near "user account"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:34	0
12	L12	"switch identity" adj "certificate" near "signature"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:34	0

	L #	Search Text	DBs	Time Stamp	Hits
13	L13	"switch identity" same "certificate" near "signature"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:34	0
14	L14	"switch identity" same "certificate"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:34	0
15	L15	"switch identity" same "account"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:34	4

	L #	Search Text	DBs	Time Stamp	Hits
16	L16	"switch identity" same "digital signature"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:35	0
17	L17	L15 and L9	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:35	0
18	L18	"switch user" adj "certificate" near "digital signature"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:35	0

	L #	Search Text	DBs	Time Stamp	Hits
19	L19	"switch user" near "certificate" near "digital signature"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:35	0
20	L20	"user identity" adj "switch" near "certificate"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:36	0
21	L21	"user identity" adj "switch" near "digital signature"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:36	0

	L #	Search Text	DBs	Time Stamp	Hits
22	L22	"user identity" adj "switch"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:36	2
23	L23	"user identity" same "switch"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:36	174
24	L24	"user identity" same "switch" same "certificate"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:37	5

	L #	Search Text	DBs	Time Stamp	Hits
25	L25	L23 and L10	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:37	4
26	L26	L23 and L8	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:37	0
27	L27	"user account" same "private key" same "switch"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:37	1

	L #	Search Text	DBs	Time Stamp	Hits
28	L28	L23 and L27	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:38	0
29	L29	(certificate or hash or message digest) adj (switch) adj (user or account)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:39	7
30	L30	(digital signature) adj (private or secret) near (key) adj (user account)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:40	10

	L #	Search Text	DBs	Time Stamp	Hits
31	L31	L29 and L30	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2006/10/18 17:40	0

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### Release Notes for Cisco VPN Client for Windows, Release 3.5.1

To connect using a digital certificate for authentication you need a digital ... Microsoft has indicated that the "Welcome" screen and the "switch user" UI ...  
www.cisco.com/univercd/cc/td/doc/product/vpn/client/re3\_5\_1/351\_3kcl.htm - 113k - [Cached](#) - [Similar pages](#)

### Release Notes for VPN Client, Release 4.6.00 through 4.6.04

Start Before Logon and Microsoft Certificate with Private Key Protect Fails ... When there are multiple users are logged in using the FAST SWITCH USER ...

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### 1 [File and storage systems: Decentralized user authentication in a global file system](#)

Michael Kaminsky, George Savvides, David Mazieres, M. Frans Kaashoek  
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Publisher: ACM Press

Full text available: [pdf\(144.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The challenge for user authentication in a global file system is allowing people to grant access to specific users and groups in remote administrative domains, without assuming any kind of pre-existing administrative relationship. The traditional approach to user authentication across administrative domains is for users to prove their identities through a chain of certificates. Certificates allow for general forms of delegation, but they often require more infrastructure than is necessary to sup ...

**Keywords:** ACL, SFS, authentication, authorization, credentials, file system, groups, users

### 2 [Johnny 2: a user test of key continuity management with S/MIME and Outlook Express](#)

Simson L. Garfinkel, Robert C. Miller  
July 2005 **Proceedings of the 2005 symposium on Usable privacy and security SOUPS '05**

Publisher: ACM Press

Full text available: [pdf\(665.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Secure email has struggled with significant obstacles to adoption, among them the low usability of encryption software and the cost and overhead of obtaining public key certificates. Key continuity management (KCM) has been proposed as a way to lower these barriers to adoption, by making key generation, key management, and message signing essentially automatic. We present the first user study of KCM-secured email, conducted on naïve users who had no previous experience with secure email. Our ...

**Keywords:** Usability, e-commerce, user interaction design, user studies

3

### [Authentication in distributed systems: theory and practice](#)

 Butler Lampson, Martín Abadi, Michael Burrows, Edward Wobber  
November 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 4

Publisher: ACM Press

Full text available:  pdf(3.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We describe a theory of authentication and a system that implements it. Our theory is based on the notion of principal and a "speaks for" relation between principals. A simple principal either has a name or is a communication channel; a compound principal can express an adopted role or delegated authority. The theory shows how to reason about a principal's authority by deducing the other principals that it can speak for; authenticating a channel is one important application. We ...

**Keywords:** certification authority, delegation, group, interprocess communication, key distribution, loading programs, path name, principal, role, secure channel, speaks for, trusted computing base

4 Securing the global, remote, mobile user

Walt Curtis, Lori Sinton

March 1999 **International Journal of Network Management**, Volume 9 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(982.14 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Electronic commerce is inevitable and will reshape our lives, but before true electronic commerce environments can be realized, it will be necessary to secure your enterprise against outside attacks on its electronic information and provide controls for authorized access to that information. Copyright © 1999 John Wiley & Sons, Ltd.

5 Encryption and Secure Computer Networks

 Gerald J. Popek, Charles S. Kline

December 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.50 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 A methodology for analyzing the performance of authentication protocols

 Alan Harbitter, Daniel A. Menascé

November 2002 **ACM Transactions on Information and System Security (TISSEC)**,

Volume 5 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.25 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Performance, in terms of user response time and the consumption of processing and communications resources, is an important factor to be considered when designing authentication protocols. The mix of public key and secret key encryption algorithms typically included in these protocols makes it difficult to model performance using conventional analytical methods. In this article, we develop a validated modeling methodology to be used for analyzing authentication protocol features, and we use two ...

**Keywords:** Authentication, Kerberos, mobile computing, performance modeling, proxy servers, public key cryptography

7 Security through the eyes of users: Hardening Web browsers against man-in-the-

8 **middle and eavesdropping attacks**

 Haidong Xia, José Carlos Brustoloni

May 2005 **Proceedings of the 14th international conference on World Wide Web  
WWW '05**

Publisher: ACM Press

Full text available:  pdf(770.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Existing Web browsers handle security errors in a manner that often confuses users. In particular, when a user visits a secure site whose certificate the browser cannot verify, the browser typically allows the user to view and install the certificate and connect to the site despite the verification failure. However, few users understand the risk of man-in-the-middle attacks and the principles behind certificate-based authentication. We propose context-sensitive certificate verification (CSCV), w ...

**Keywords:** HTTPS, SSL, Web browser, certificate, eavesdropping attack, just-in-time instruction, man-in-the-middle attack, password, safe staging, well-in-advance instruction

8 **Certificate-based authorization policy in a PKI environment**

 Mary R. Thompson, Abdelilah Essiari, Srilekha Mudumbai

November 2003 **ACM Transactions on Information and System Security (TISSEC),  
Volume 6 Issue 4**

Publisher: ACM Press

Full text available:  pdf(233.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The major emphasis of public key infrastructure has been to provide a cryptographically secure means of authenticating identities. However, procedures for authorizing the holders of these identities to perform specific actions still need additional research and development. While there are a number of proposed standards for authorization structures and protocols such as KeyNote, SPKI, and SAML based on X.509 or other key-based identities, none have been widely adopted. As part of an effort to us ...

**Keywords:** Public key infrastructure, XML, digital certificates

9 **Mobile services and technology track: A conceptual approach to information security  
in financial account aggregation**

 Manish Agrawal, Hemant Padmanabhan, Lokesh Pandey, H. R. Rao, Shambhu Upadhyaya  
March 2004 **Proceedings of the 6th international conference on Electronic commerce  
ICEC '04**

Publisher: ACM Press

Full text available:  pdf(173.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

An important dimension of mobile computing is the ubiquitous and location-independent availability of data. Aggregation is the ability to electronically access and display personal account information from disparate sources through a single identity. The client financial data is assembled in an organized format providing meaningful summarization and analysis. The prevalent methods of aggregation pose issues in information security and assurance. Utilizing advances in Internet technology such as ...

**Keywords:** account service providers, aggregation, identity service providers, scraping

10 **Ticket based service access for the mobile user**

Bhrat Patel, Jon Crowcroft

- September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**  
Publisher: ACM Press  
Full text available: [pdf\(1.52 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 11 Authentication in distributed systems: theory and practice  
Butler Lampson, Martín Abadi, Michael Burrows, Edward Wobber  
September 1991 **ACM SIGOPS Operating Systems Review , Proceedings of the thirteenth ACM symposium on Operating systems principles SOSP '91**, Volume 25 Issue 5  
Publisher: ACM Press  
Full text available: [pdf\(2.33 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a theory of authentication and a system that implements it. Our theory is based on the notion of principal and a "speaks for" relation between principals. A simple principal either has a name or is a communication channel; a compound principal can express an adopted role or delegation of authority. The theory explains how to reason about a principal's authority by deducing the other principals that it can speak for; authenticating a channel is one important application. We use the th ...

- 12 Revokable and versatile electronic money (extended abstract)  
Markus Jakobsson, Moti Yung  
January 1996 **Proceedings of the 3rd ACM conference on Computer and communications security**  
Publisher: ACM Press  
Full text available: [pdf\(1.53 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 13 On-line e-wallet system with decentralized credential keepers  
Stig Frode Mjølsnes, Chunming Rong  
February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1  
Publisher: Kluwer Academic Publishers  
Full text available: [pdf\(240.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a generalization of the architecture of an electronic wallet, as first developed in the seminal European research project CAFE. With this model you can leave most of the content of your electronic wallet at the security of your residential electronic keeper, while roaming with your favorite mobile terminals. Emerging mobile handsets with both short range Bluetooth and cellular GPRS communications provide a sufficient communication platform for this electronic wallet architecture. Howe ...

**Keywords:** digital credentials, e-wallet architecture, mobile commerce, payment protocols, privacy

- 14 Unlinkable serial transactions: protocols and applications  
Stuart G. Stubblebine, Paul F. Syverson, David M. Goldschlag  
November 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 4  
Publisher: ACM Press  
Full text available: [pdf\(184.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a protocol for unlinkable serial transactions suitable for a variety of network-

based subscription services. It is the first protocol to use cryptographic blinding to enable subscription services. The protocol prevents the service from tracking the behavior of its customers, while protecting the service vendor from abuse due to simultaneous or cloned use by a single subscriber. Our basic protocol structure and recovery protocol are robust against failure in protocol termination. ...

**Keywords:** anonymity, blinding, cryptographic protocols, unlinkable serial transactions

**15 Computing curricula 2001**

 September 2001 **Journal on Educational Resources in Computing (JERIC)**

**Publisher:** ACM Press

Full text available:  pdf(613.63 KB)

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**16 Separating key management from file system security**

 David Mazières, Michael Kaminsky, M. Frans Kaashoek, Emmett Witchel

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

**Publisher:** ACM Press

Full text available:  pdf(1.77 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

No secure network file system has ever grown to span the Internet. Existing systems all lack adequate key management for security at a global scale. Given the diversity of the Internet, any particular mechanism a file system employs to manage keys will fail to support many types of use. We propose separating key management from file system security, letting the world share a single global file system no matter how individuals manage keys. We present SFS, a secure file system that avoids internal ...

**17 Session 2: secure Web services: Designing a distributed access control processor for**

 **network services on the Web**

Reiner Kraft

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

**Publisher:** ACM Press

Full text available:  pdf(301.14 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

**Keywords:** Web services, XML, access control, security

**18 Virtual machine monitors: Terra: a virtual machine-based platform for trusted**

 **computing**

Tal Garfinkel, Ben Pfaff, Jim Chow, Mendel Rosenblum, Dan Boneh

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

**Publisher:** ACM Press

Full text available: [pdf\(140.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a flexible architecture for trusted computing, called Terra, that allows applications with a wide range of security requirements to run simultaneously on commodity hardware. Applications on Terra enjoy the semantics of running on a separate, dedicated, tamper-resistant hardware platform, while retaining the ability to run side-by-side with normal applications on a general-purpose computing platform. Terra achieves this synthesis by use of a *trusted virtual machine monitor* (TVMM ...)

**Keywords:** VMM, attestation, authentication, trusted computing, virtual machine, virtual machine monitor

**19** Fast and secure distributed read-only file system 

 Kevin Fu, M. Frans Kaashoek, David Mazières

February 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 1

Publisher: ACM Press

Full text available: [pdf\(317.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Internet users increasingly rely on publicly available data for everything from software installation to investment decisions. Unfortunately, the vast majority of public content on the Internet comes with no integrity or authenticity guarantees. This paper presents the self-certifying read-only file system, a content distribution system providing secure, scalable access to public, read-only data. The read-only file system makes the security of published content independent from that of the distri ...

**Keywords:** File systems, read-only, security

**20** Special feature: Report on a working session on security in wireless ad hoc networks 

 Levente Buttyán, Jean-Pierre Hubaux

January 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue 1

Publisher: ACM Press

Full text available: [pdf\(2.50 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

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